



Edition: BP 2025 (Ph. Eur. 11.6 update)

## Ergocalciferol Injection

### [General Notices](#)

### Action and use

Vitamin D analogue (Vitamin D<sub>2</sub>).

### DEFINITION

Ergocalciferol Injection is a sterile solution of Ergocalciferol in Ethyl Oleate.

*The injection complies with the requirements stated under Parenteral Preparations and with the following requirements.*

### Content of ergocalciferol, C<sub>28</sub>H<sub>44</sub>O

90.0 to 110.0% of the stated amount.

### CHARACTERISTICS

A colourless to pale yellow, oily liquid.

### IDENTIFICATION

To 1 mL of a 0.2% v/v solution of the injection in [ethanol-free chloroform](#) add 9 mL of [antimony trichloride solution](#). The [light absorption](#) of the resulting solution, [Appendix II B](#), exhibits a maximum at 500 nm.

### ASSAY

Carry out the following procedure in subdued light. Dilute 0.1 g of the injection to 50 mL with dry [1,2-dichloroethane](#) that has been purified by passing it through a column of [silica gel](#). To 1 mL of this solution add rapidly 9 mL of [antimony trichloride in dichloroethane solution](#) and measure the [absorbance](#) of the solution at 500 and 550 nm, [Appendix II B](#), 90 to 120 seconds after adding the reagent. Repeat the operation using 1 mL of a 0.002% w/v solution of [ergocalciferol BPCRS](#) in the dry, purified 1,2-dichloroethane, beginning at the words 'add rapidly 9 mL of [antimony trichloride solution](#)...'. Calculate the result of the assay from the difference between the absorbances at 500 and 550 nm and using the declared content of C<sub>28</sub>H<sub>44</sub>O in [ergocalciferol BPCRS](#). Calculate the percentage w/v of ergocalciferol taking 0.87 g as the value of the [weight per mL](#) of the injection.

### STORAGE

Ergocalciferol Injection should be protected from light.

## **LABELLING**

The label states (1) that the preparation is for intramuscular use only; (2) the equivalent number of IU (units) of antirachitic activity (vitamin D) in 1 mL.

Each µg of ergocalciferol is equivalent to 40 IU of antirachitic activity (vitamin D).

When calciferol injection is prescribed or demanded, [Colecalciferol Injection](#) or Ergocalciferol Injection shall be dispensed or supplied.